TW@N

THIS WEEK @ NASA

1
00:00:00,000 --> 00:00:04,504
A milestone for our experimental
supersonic airplane.

2
00:00:04,504 --> 00:00:07,974
Stretching Orion’s wings
before the next flight.

3
00:00:07,974 --> 00:00:10,844
And technologies to help fight wildfires.

4
00:00:10,844 --> 00:00:14,280
A few of the stories to tell you about,
This Week at NASA!

5
00:00:15,048 --> 00:00:19,419
The experimental X-59 aircraft being built
for our Quesst mission

6
00:00:19,419 --> 00:00:23,690
has been outfitted with its
lower empennage, or tail assembly.

7
00:00:23,690 --> 00:00:27,293
Teams can now continue final wiring and
system checkouts

8
00:00:27,293 --> 00:00:30,330
in preparation for integrated
ground testing.

9
00:00:30,330 --> 00:00:34,868
The X-59 is designed to demonstrate
the ability to fly supersonic

10
00:00:34,868 --> 00:00:40,206
and produce just a quiet sonic thump,
instead of a loud sonic boom.

11

00:00:41,141 --> 00:00:45,178
Teams at our Kennedy Space Center recently
tested a solar array wing

12
00:00:45,178 --> 00:00:47,680
to make sure it extends correctly.

13
00:00:47,680 --> 00:00:51,551
Four of the solar arrays will be installed
on the Orion spacecraft

14
00:00:51,551 --> 00:00:53,453
for the Artemis II mission.

15
00:00:53,453 --> 00:00:57,123
Artemis II will be the first Artemis
mission to carry astronauts

16
00:00:57,123 --> 00:00:59,492
around the Moon and back to Earth.

17
00:01:00,360 --> 00:01:04,064
The ACERO project, led by
our Ames Research Center,

18
00:01:04,064 --> 00:01:09,302
is using drones and advanced aviation
technologies to improve wildfire fighting

19
00:01:09,302 --> 00:01:11,538
coordination and operations.

20
00:01:11,538 --> 00:01:16,176
ACERO’s airspace management technologies
provide situational awareness

21
00:01:16,176 --> 00:01:20,613
to help responders avoid conflicts
with aircraft operations.

22
00:01:20,613 --> 00:01:23,583
Having this situational awareness could
also enable them

23
00:01:23,583 --> 00:01:27,520
to safely integrate drones into
the firefighting effort.

24
00:01:28,421 --> 00:01:32,525
Our Lucy spacecraft recently captured
its first look at four of the

25
00:01:32,525 --> 00:01:36,262
Jupiter Trojan asteroids the
mission plans to visit.

26
00:01:36,262 --> 00:01:40,533
From more than 330 million miles away,
the spacecraft spotted

27
00:01:40,533 --> 00:01:44,604
Eurybates, Polymele, Leucus, and Orus.

28
00:01:44,604 --> 00:01:48,475
The asteroids are just single points
of light, but the team can still use

29
00:01:48,475 --> 00:01:51,978
the imaging data to prepare for
the future up-close observations

30
00:01:51,978 --> 00:01:53,980
of Lucy's targets.